JC05 Rec'd PCT/PTO 12 OCT 2005

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Sut | estitute for form 1449A/B/P | то | | Complete if Known | | |
|-------|-----------------------------|----------|--------------|------------------------|-------------------------|--|
| | | | | Application Number | Not Yet Assigned | |
| 11 | NFORMATIO | N DI | SCLOSURE | Filing Date | Concurrent Heaving 2554 | |
| l s | TATEMENT | BY A | APPLICANT | First Named Inventor | Hiroji Masuda | |
| | | | | Art Unit | N/A | |
| | (Use as many s | heets as | s necessary) | Examiner Name | Not Yet Assigned | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 5259-000058/US/NP | |

| U.S. PATENT DOCUMENTS | | | | | | | | |
|-----------------------|------|--|------------------|-----------------------------|---|--|--|--|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, Where | | | |
| Initials* | No.1 | Number-Kind Code ² (# known) | 14110010001 | Applicant of Cited Document | Relevant Passages or Relevant Figures Appear | | | |
| En | AA* | US-6,359,728-B1 | 03-19-2002 | Angellieri et al. | | | | |

| | | | FOREIG | GN PATENT D | OCUMENTS | | |
|-----------------------|-------------|------|---|-------------|-----------------------------|---|----------------|
| Examiner Initials* | | Cite | Foreign Patent Document | Publication | Name of Patentee or | Pages, Columns, Lines, | |
| | | No.1 | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | MM-DD-YYYY | Applicant of Cited Document | Where Relavant Passages or Relevant Figures Appear | Τ ⁶ |
| 3 | 12 V | BA | JP-2003-124551-A | 04-25-2003 | | | 1 |
| | V | ВВ | JP-2000-101174-A | 04-07-2000 | | | 1 |
| | V | ВС | JP-2003-050409-A ✓ | 02-21-2003 | | | 1 |
| | b.v | BD | JP-2001-196672-A / | 07-19-2001 | | | 1 |
| 3 | B | BE | JP-05-129685 | 05-25-1993 | | | 1 |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Senter Office that issue the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here If English language Translation is attached.

| | NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|----------------------|---------------------------------|---|----|--|--|--|--|--|
| Examiner Initials | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² | | | | | |
| হয় | | K. Aida et al., "1.8Gb/s 310 km Fiber Transmission Without Outdoor Repeater Equipment Using a Remotely Pumped In-Line Er-Doped Fiber Amplifier in an IM/Direct-Detection System", Proc. of ECOC, PDA-7, pp. 29-32, 1989 | | | | | | |
| En | CB V | N. Ohkawa, et al., "Large Capacity Submarine Repeaterless Transmission System Design Employing Remote Pumping", IEICE Trans, Commun., Vol. E81-B, pp. 586-596, 1998 | | | | | | |
| פא | | H. Masuda, et al., "First field trial using novel two-stage remotely-pumped EDF/distrib: ited Raman hybrid inline amplifiers with 1.28-Tbit/s (32 x 43 Gbit/s) capacity over 528-km (6 x 88 km) DSF in the L-band", Technical Digest of Optical Amplifiers and Their Applications, Optical Society of America Topical Meetings, PD2-1 - PD2-4, July 6-9, 2003 | | | | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Examiner Signature | ic Bolda | Date Considered | 6/20/07 |
|--------------------|----------|--------------------|---------|
| | | | GASI |

^{&#}x27;Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 09/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Sub | stitute for form 1449A/I | B/PTO | | Complete If Known | | |
|-------|--------------------------|-----------------|----------|------------------------|------------------------|--|
| - | | | | Application Number | 10/552,554-Conf. #6681 | |
| IN | IFORMATI | ON DISC | CLOSURE | Filing Date | October 12, 2005 | |
| S | TATEMEN' | T BY AP | PLICANT | First Named Inventor | Hiroji Masuda | |
| | | | | Art Unit | N/A | |
| | (Use as man | y sheets as ned | cessary) | Examiner Name | Not Yet Assigned | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 5259-000058/US/NP | |

| U.S. PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|--------------|---|--------------------------------|--|---|--|--|--|--|
| Examiner Initials' | Cite No.1 | Document Number Number-Kind Code ² (#known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | | | |
| (D | AA. | US-6,320.694 | | Ohshima et al. | | | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|--------------------------|--|-------------|-----------------------------|---|----------|--|--|--|--|
| Evenine | Cite | Foreign Patent Document | Publication | Name of Patentee or | Pages, Columns, Lines, | | | | | |
| Examiner Initials* | No.' | Country Code ³ -Number ⁴ -Kind Code ³ (# known) | MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | | | | | |
| 27 | BA | JP-11-121849 ** | 04-30-1999 | Fujitsu Ltd | | \vdash | | | | |

^{**} Corresponding to US 6,320,694

*EXAMINER: Initial II reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

| | | NON PATENT LITERATURE DOCUMENTS | |
|----------------------|--------------------------|---|----|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T2 |
| | | | 1 |

^{*}EXAMINER: Initial II reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation it not in conformance and not considered. Include copy of this form with next communication to applicant.

| Examiner Signature | Enic | Bolda | Date Considered | 6/20/07 |
|-----------------------|------|-------|--------------------|---------|
| | | | | GAS/sir |

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

| Sut | ostitute for form 1449A/B/PT | 0 | | Complete if Known | | |
|-------|------------------------------|---------|------------|------------------------|-------------------|--|
| | | | | Application Number | 10/552554 | |
| 11 | VFORMATION | 1 DI | SCLOSURE | Filing Date | October 12, 2005 | |
| S | TATEMENT I | 3Y / | APPLICANT | First Named Inventor | Hiroji Masuda | |
| | | | | Art Unit | N/A | |
| | (Use as many sh | eets as | necessary) | Examiner Name | Not Yet Assigned | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 5259-000058/US/NP | |

| | U.S. PATENT DOCUMENTS | | | | | | | | |
|-----------------------|-----------------------|--|--------------------------------|--|---|--|--|--|--|
| Examiner Initials* | Cite No.1 | Document Number Number-Kind Code ² (<i>If knawn</i>) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | | | |
| 3.12 | ζ 13 AA* US-6,111,686 | | Toyhara | | | | | | |
| Cか AB* US-5,903,385 | | Sugaya et al. | | | | | | | |

| | | FOREI | GN PATENT | DOCUMENTS | · · · · · · · · · · · · · · · · · · · | |
|-----------------------|--------------|---|--------------------|-----------------------------|---|----------|
| Examiner Initials* | Cite No.1 | Foreign Patent Document | Publication | Name of Patentee or | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | Г |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | Date MM-DD-YYYY | Applicant of Cited Document | | T⁵ |
| E19 | | JP-10-209540 | 08-07-1998 | Toyohara | | М |
| | BB | JP-2003-110178 | 04-11-2003 | Masuda et al. | | 1 |
| | BC | JP-2001-109025 | 04-20-2001 | Masuda et al. | | 1 |
| | BD | JP-07-162371 | 06-23-1995 | Shigematsu et al. | | 1 |
| | BE | JP-10-257028 | 09-25-1998 | Sugaya et al. | | \vdash |
| } | BF | JP-2003-283019 | 10-03-2003 | Kenjo | | 1 |
| 5 m | BG | JP-05-224254 | 09-03-1993 | Nakagawa | | 1 |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov/ or MPEP 901.04. ³ Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST.16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

| | | NON PATENT LITERATURE DOCUMENTS | |
|----------------------|--------------|---|----|
| Examiner Initials | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |
| | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Examiner Signature | Eric | Bolda | Date Considered | 6, | 120/07 | |
|-----------------------|------|-------|--------------------|----|--------|-------|
| | | | | | 00 | C/ala |

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.